Amendments to the Claims

1. (Currently Amended) A method for correcting a phase of a clock in a data receiver which receives a data flow representing different signal levels with logical high and low signal values and signal transitions positioned therebetween, comprising the steps of:

evaluating the positions of the signal transitions between respective two adjacent logical signal values for correcting the phase of the clock,

wherein the position of a signal transition between a first pair of signal values on a first level (11), or a second pair of signal values on a second level (00) is weighted stronger in the evaluation than the positions of signal transitions between adjacent single signal values (1,0) of different signal levels.

2. (Currently Amended) The method of claim 1 comprising the steps of:

- a) sampling the data flow with a clock frequency at four intervals (AA, A, B, BB) adjacent logical signal values, and at a signal transition positioned between the inner intervals (A, B) for obtaining a position information of the transition relative to the logical signal values;
 - b) forming sample groups from said signal samples taken in step a).
- c) supplying said sample groups to an early-late phase detector which evaluates said sample groups as to whether the phase of said clock frequency is to be shifted, and outputs a control signal for "frequency UP" "frequency DOWN" or "No control value".
- d) examining whether there are pairs (11,00) of logical signal values on the same level with a signal transition between neighbouring pairs, and
- e) scaling up said control signal (UP, DOWN) in step c) if the condition under step d) is fulfilled.

3. (Cancelled)